

M/035/011

Kennecott Utah Copper Corporation
P.O. Box 6001
Magna, Utah 84044-6001
(801) 569-6000

(801) 569-7120 (Phone)
(801) 569-7192 (Fax)

Paula H. Doughty
Director, Environmental Affairs

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MAR 03 2005
DIV. OF OIL, GAS & MINING



March 1, 2005

CERTIFIED MAIL

Mr. Daron Haddock
Minerals Reclamation Program
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Subject: Notice of Planned Capacity Upgrades at the Copperton Concentrator:
DOGM Permit M/035/011

Dear Mr. Haddock:

As per Utah Administrative Code R647-4-118, attached is a notice of intention to amend Mining Operations for permit number M/035/011 for the addition of a pebble crushing and conveying facility at the Copperton Concentrator, scheduled for construction in fall 2005. This facility will be constructed on existing disturbed acreage, currently covered by asphalt, thus there will be no increase in disturbed land. The addition of this facility is an insignificant change as it will not increase the amount of work required to vegetate the site and all costs associated with mobilization/demobilization of demolition equipment, utility isolation and engineering are already included in the existing reclamation surety bond.

A description of the planned changes and engineering drawings are included with this notice. It is our expectation that the reclamation surety estimate, NOI form and attached documentation is sufficient for this amendment.

Please contact me at 569-7120 or Vicky Peacey (569-7118) if you have any questions or comments.

Sincerely,


Paula H. Doughty
Director, Environmental Affairs

Attachments

FOR DOGM USE ONLY:

File #:(M/S) _____/_____-__ ()
Approved: (mm/dd/yy) _____/_____/_____
Bond Adjustment: (\$) _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Telephone: (801) 538-5291 Fax: (801) 359-3940

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DIV. OF OIL, GAS & MINING

NOTICE OF INTENTION TO REVISE MINING OPERATIONS

When an operator intends to revise a mining operation, a **Notice of Intention to Revise Mining Operations** shall be filed with the Division. The notice must include all information, concerning the revision, that would have been required if it had been included in the original Notice of Intention (NOI). Ideally, the revision application should be a "stand-alone" document and include all information necessary to conduct a complete review.

"REVISION" means a **significant change** to the approved Notice of Intention to Conduct Mining Operations, which will increase the amount of land affected or alter the location and type of onsite surface facilities such that the nature of the reclamation plan will differ substantially from the approved Notice of Intention. Revisions require a formal public notice of tentative approval and may require a change in the amount of reclamation surety.

"AMENDMENT" is an **insignificant change** to the approved Notice of Intention. An amendment requires Division approval, but does not require public notice.

The Division will determine whether a request for change is significant or insignificant on an individual case-by-case basis.

PLEASE NOTE: When applicable, reference to previously approved information contained in the original NOI can be used (identify volume #'s, section, page #, plate/map #'s, & date of submittal). If possible, please attach appropriate copies of the referenced material as part of the application for revision.

Where possible, please format the application to revise mining operations (e.g., text, maps, tables, figures, etc.) to allow direct insertion into the original NOI as replacement pages, or as a separate addendum to the approved NOI.

The operator is encouraged to use this form as a guide only. Please use extra sheets as necessary to complete each section that follows.

The following information must be included as part of the application to revise mining operations:

I. GENERAL INFORMATION (Rule R647-4-104)

1. Name of Operator/Applicant: Kennecott Utah Copper Corporation

2. Name of Company/Corporation: Kennecott Utah Copper Corporation

3. Address: PO Box 6001, Magna, Utah 84044-6001

4. Phone: (801) 569-6000 Fax: (801) 569-7192

5. Name of Mine/Project: Copperton Concentrator / Pebble Crusher

6. Previously Assigned File Number: (M / S) / 035 / 011
*from original Notice of Intention (NOI)

7. Location of Proposed Activities:

COUNTY Salt Lake

TOWNSHIP _____, RANGE _____, SEE ATTACHMENT

SECTION(S) _____ (Identify to 1/4, 1/4 section) SEE ATTACHMENT

8. Ownership of Land Surface:

Private (Fee) ___ Owners Name(s): Kennecott Utah Copper Corporation

State of Utah ___ Public Domain (BLM) ___ National Forest (USFS) _____

9. Ownership of Minerals:

Private (Fee) ___ Owners Names(s): Kennecott Utah Copper Corporation

State of Utah ___ Public Domain (BLM) ___ National Forest (USFS) _____

10. BLM Lease or Project File Number(s) and/or USFS assigned Project Number(s):
DOGM File Number M/035/011

11. Utah State Lease Numbers(s): NA

II. MAPS, DRAWINGS & PHOTOGRAPHS (Rule R647-4-105)

Appropriate maps, drawings, plates, etc. should be provided that are pertinent to the revision, or amendment of mining operations. Please provide a revised map outlining the previously approved and the new proposed disturbed area boundaries. These materials should be prepared according to the requirements of Rule R647-4-105.

List map numbers or appendices used for this section: Three (3) maps are attached

III. OPERATION PLAN (Rule R647-4-106)

Provide a narrative description, referencing any appropriate attached maps or drawings, of the pertinent details of the proposed change(s) in the operating plan. Specific details which are different from those described in the original approved NOI should be included. Identify additional proposed surface disturbance. Include the total number of acres to be affected by the revision or amendment. All appropriate information requirements as outlined under Rule R647-4-106 must be addressed in the application.

SEE ATTACHMENT

IV. IMPACT ASSESSMENT (Rule R647-4-109)

Please provide information as required under Rule R647-4-109 regarding projected potential surface and/or subsurface impacts which may be associated with the proposed change(s) in mining operations.

SEE ATTACHMENT

V. RECLAMATION PLAN (Rule R647-4-110)

Describe how you intend to stabilize the disturbed areas upon cessation of operations. This includes backfilling excavations, grading, sloping or contouring, permanent stabilization of slopes or roads, permanent closure of roads, removal of structures and improvements, etc. Provide cross section of the proposed final contour of the land after reclamation.

Please outline any proposed changes to the originally approved reclamation plan. Appropriate sections of Rule R647-4-110 must be addressed as they may apply to the proposed change(s) in mining operations.

NA - No additional disturbed areas

SEE ATTACHMENT

VI. VARIANCE (Rule R647-4-112)

Please identify any requests for variance from the requirements of rules R647-4-107, -108, or -111. A narrative justification must also be included for each variance request. A discussion of any alternate methods or other mitigating measures should be included, if applicable.

**There are no new variance requests as part of the
Pebble Crusher NOI.**

VII. SURETY (Rule 647-4-113)

Reclamation Surety:

Indicate whether the proposed activities will change the amount of work required to reclaim the minesite. If significant changes will result, then an itemized reclamation cost estimate should be provided (and attached) with direct reference to the specifics of the proposed change(s). This information will be used to assist the Division in determining any reclamation surety adjustments required for the operation.

The planned changes will increase final demolition work associated with removal of the structure, however, this will not increase the disturbed acreage.

SEE ATTACHMENT

VIII. SIGNATURE REQUIREMENT

The application for permit change must include a section similar to the following example:

I hereby certify that the foregoing is true and correct. I also certify that I am duly authorized to bind the company/corporation to this notice.


Signature of Owner or Officer:

PAULA H. DOUGHTY

Name (Typed or Print):

DIRECTOR, ENVIRONMENTAL AFFAIRS

Title of Owner or Officer:

Date: **1 MARCH, 2005**

ATTACHMENT FOR
NOTICE OF INTENTION TO AMEND MINING OPERATIONS

PERMIT M/035/011

**KENNECOTT UTAH COPPER CORPORATION COPPERTON CONCENTRATOR
PEBBLE CRUSHER**

**SUBMITTED TO
THE UTAH DIVISION OF OIL, GAS AND MINING
MARCH 2005**

I. GENERAL INFORMATION (Rule R647-1-104)

Location of Facility

The Copperton Concentrator facility and DOGM Permit boundary covers the following tracts of land:

Section 31	T1S, R2W
Sections 6, 7, 8, 16, 17, 21, 28, 29 & 32	T2S, R2W
Sections 5, 6, 7 & 18	T3S, R2W

II. MAPS, DRAWINGS & PHOTOGRAPHS (Rule R647-4-105)

Drawing No. 454-T-0062 shows the current approved facilities, with section, township and range.

Drawing No. 454-T-0152 shows the general location of the new Pebble Crushing and Conveying facility outlined in red. This is not to scale and only shows the general location.

Drawing No. SK-3320-M-201XY is the general plot plan showing specific locations of planned facilities. Conveyors are shown in red, the electrical/utilities room is outlined in pink, and the magnet screen tower, pebble crushing building and sag mill crushed pebble feed and distribution are highlighted in green.

III. OPERATION PLAN (Rule R647-4-106)

Current Operation

Currently, coarse ore is delivered from the mine by a 5-mile-long conveyor system from the in-pit crusher to the covered ore stockpile located immediately west of the Copperton Concentrator. From the stockpile, ore is transported onto four parallel conveyors feeding into one of four SAG mills. The SAG mill grinds the ore prior to sending it to one of two ball mills for further grinding before being sent to flotation for processing. Each SAG mill has a trommel screen attached to the discharge end of the mill. Trommel oversize is water jetted back into the SAG mill for further grinding while undersize material flows by gravity to the ball mill circuit, where it is split between two ball mills. Ground ore material is then sent to flotation to separate the ore material into metal bearing concentrate for further processing and tailings for disposal.

Planned Changes

In an effort to increase throughput of copper ore in the Copperton Concentrator and improve process efficiency, KUCC intends to add two pebble crushing units and related material handling equipment (e.g., conveyors). The addition of this equipment will result in an overall reduction in air emissions, and energy and process water requirements.

Oversized SAG mill pebbles will be removed from the SAG mill trommels and conveyed to a pebble surge bin upstream of the pebble crushers located south of the existing grinding plant building. Pebbles will then be fed to two Metso pebble crushers from the surge bin using variable speed belt feeders. A variable speed belt feeder will relay the

crushed pebbles to a SAG Mill feed and distribution point. Four belt feeders will meter material to four new conveyors that will feed the existing SAG mill feed chutes. Preliminary data indicates an average potential throughput increase of 18 percent, from a nominal 138,000 stpd to 163,000 stpd.

IV. IMPACT ASSESSMENT (Rule R647-4-109)

The planned pebble crushing facility will result in no additional surface land impacts. The new pebble crushing and conveying facility will be located on already disturbed ground entirely within the boundaries of permit number M/035/011. The facility will be constructed adjacent to and south of the existing grinding and flotation building, located within the south west corner of section 6 and the south east corner of section 5, Township 3 south and Range 2 west (Drawing 454-T-0062). Attached map 454-T-0152 shows the general location of the planned facilities, while drawing SK-3320-M-201XY shows the proposed facilities to scale and in plan view.

The planned crushing facility will be located on land that has already been disturbed by ore processing activities. The addition of this equipment is a continuation of activities already occurring at the Copperton Concentrator, which are largely defined by crushing, conveying and flotation.

The planned process capacity upgrades are insignificant changes since they will not increase the disturbed area or amount of work required to vegetate the site. In addition, costs associated with mobilization/demobilization of demolition equipment, utility isolation, engineering and revegetation are already included in the existing reclamation surety bond. The new facilities will only result in an increase in structures requiring removal once ore processing activities have ceased.

The estimated total cost for demolition of the pebble crushing facility is \$87,520, which includes removal of steel structures and concrete (Table 1). The total for demolition of steel structures is \$64,870. This is based on a cost of \$0.75 per square foot per 15 feet in height for demolition. The facility will cover 49,425 square feet, multiplied by a height factor of 1.75. Removal of the concrete based from the pebble crushing building will cost \$22,650. The concrete based under the pebble crushing building will comprise 302 cubic yards of concrete at a removal rate of \$75/cubic yard. This estimate does not include credits for recyclable scrap materials such as steel. Using the GDP Deflator inflation calculation, this is escalated to \$92,045 to cover reclamation costs at the end of the next escalation period (2008) that applies to the existing contract and surety for the Copperton Concentrator.

ENGINEERING COST ESTIMATE FOR DEMOLITION OF PEBBLE CRUSHER

Steel Structure Demolition

Area

Pebble Crushing Building + Magnet Screen Tower + SAG Mill crushed Pebble Feed & Distribution and Conveyors = 49,425 square feet.

Demolition

\$0.75/square foot/15 feet in height x 1.75 (height factor)

Cost Estimate

$\$0.75 \times 49,425 \text{ square feet} \times 1.75 = \mathbf{\$64,870}$

Concrete Demolition

Volume

Concrete Pad for Pebble Crushing Building = 302 cubic yards

Demolition

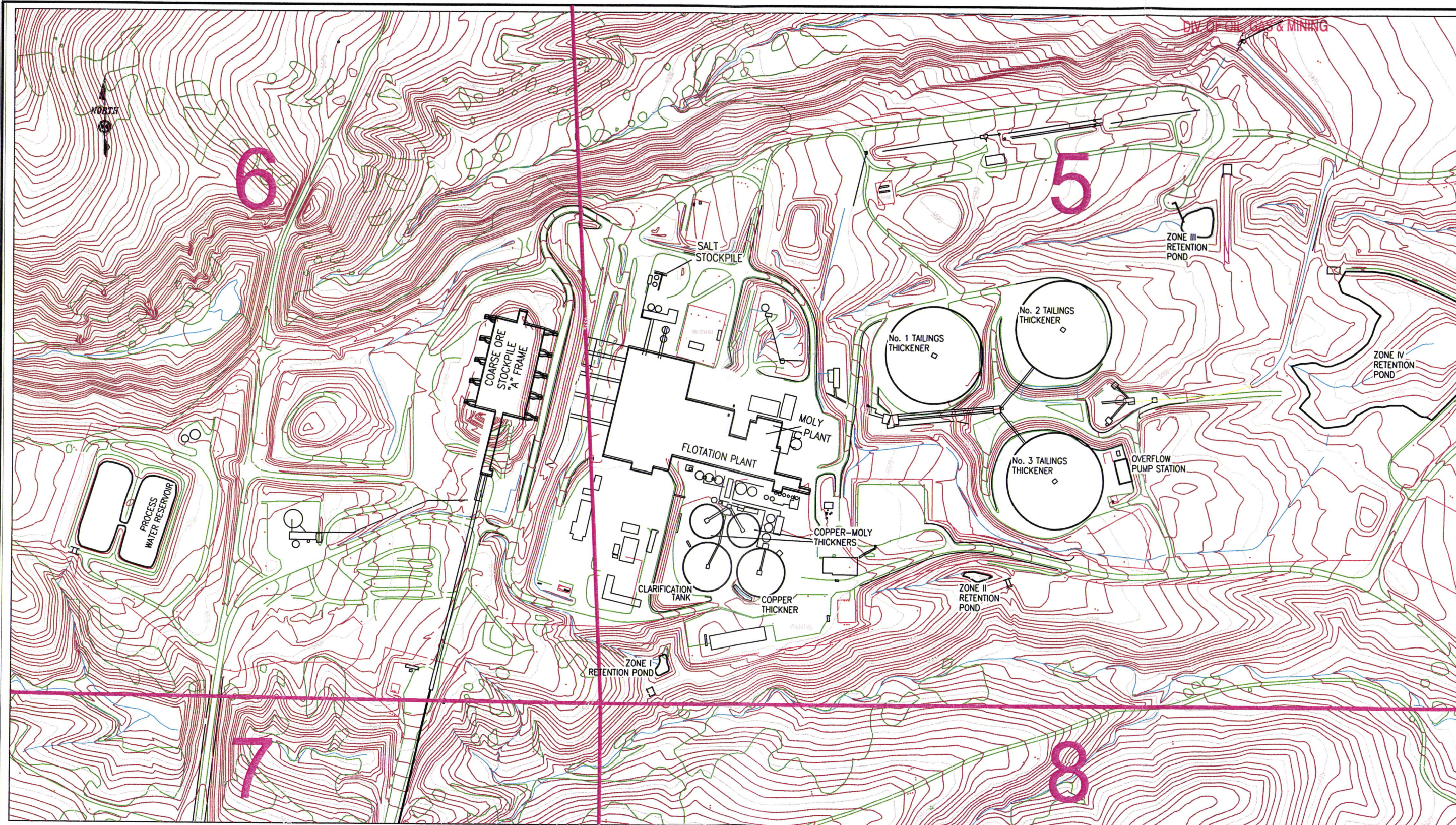
Demolition = \$75/cubic yard

Cost Estimate

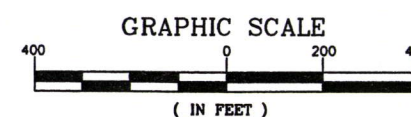
$\$75 \times 302 \text{ cubic yards} = \mathbf{\$22,650}$

Total Demolition Cost (2005 Dollars) = **\$87, 520**

Total Demolition Cost (Escalated to 2008 Dollars) = **\$92, 045**

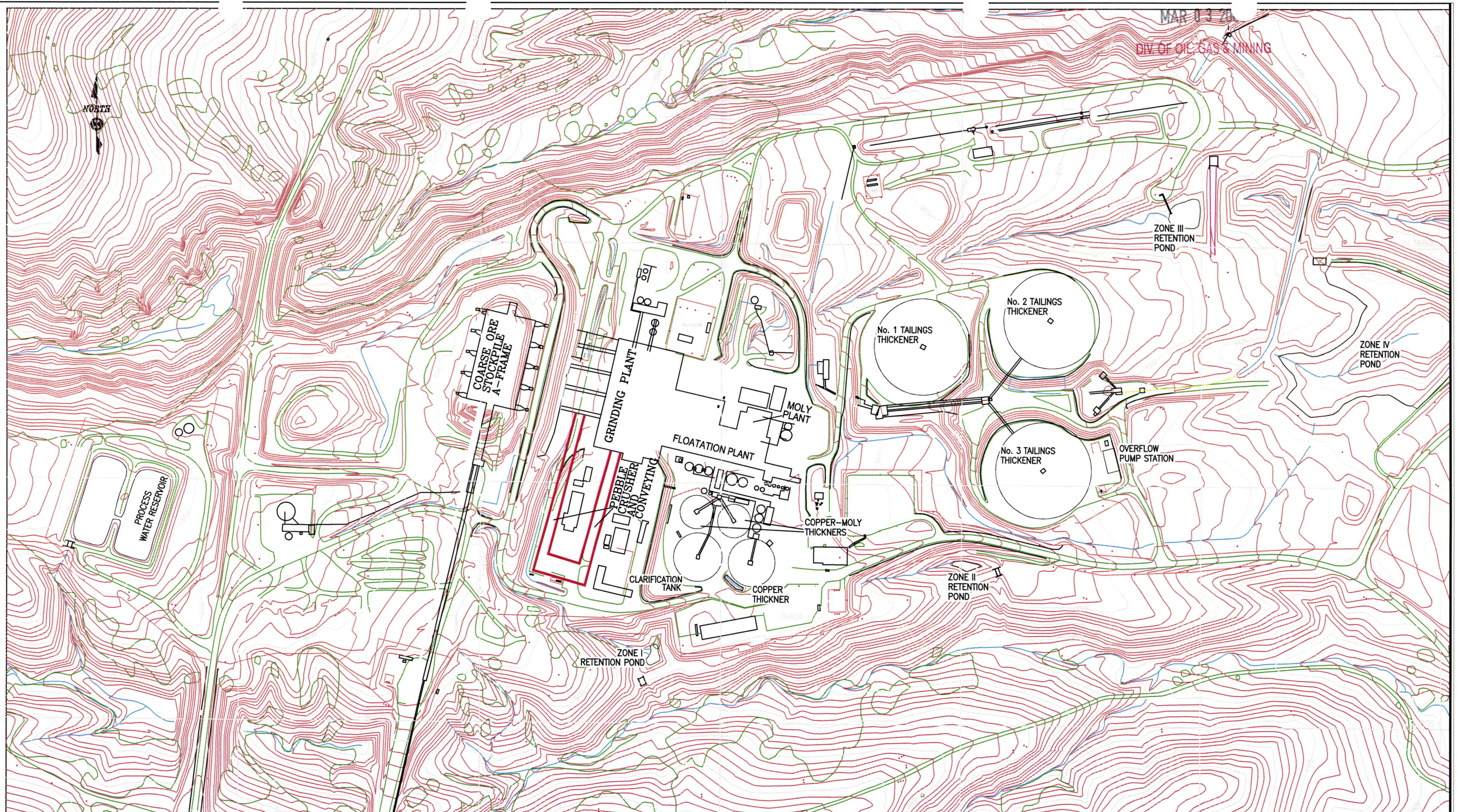


NOTES:
 AREA DEPICTED IS IN TOWNSHIP 3 SOUTH
 RANGE 2 WEST.
 TOPOGRAPHY AND CULTURE SHOWN DERIVED FROM
 1994 AERIAL SURVEY.



ENVIRONMENTAL AFFAIRS			KENNECOTT UTAH COPPER		
SCALE: 1" = 400'	DATE		FIGURE 1		
DESIGNED BY: VP	10/03		CURRENT MAP OF		
DRAWN BY: MWC	10/03		COPPERTON CONCENTRATOR		
CHECKED BY:			SHOWING SURFACE FACILITIES		
PROJECT ENGINEER:			Job No. ---	Dwg. No. 454-T-0062	REV
PROJECT MANAGER:					

MAR 03 2005
DIV OF OIL, GAS & MINING

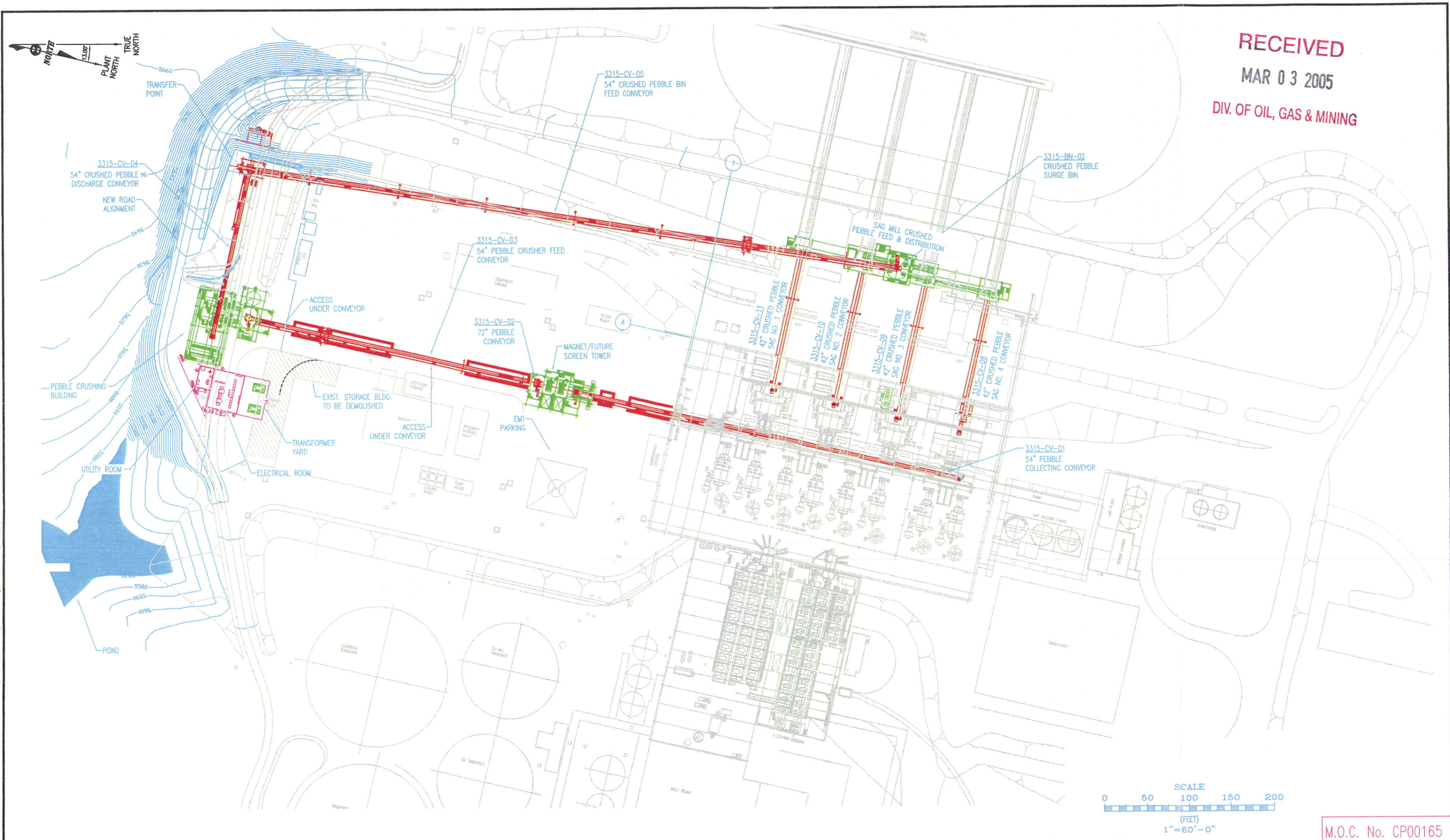


* Note: Pebble Crusher and Conveying system not to scale, general location only.

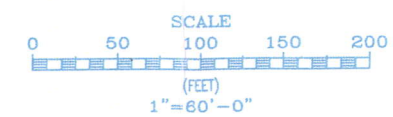
ENVIRONMENTAL AFFAIRS		KENNECOTT UTAH COPPER	
SCALE: 1" = 375'	DATE	GENERAL LOCATION OF NEW PEBBLE CRUSHING AND CONVEYING SYSTEM	
DESIGNED BY VP	2/05		
DRAWN BY JI	6/00		
CHECKED BY			
PROJECT ENGINEER			
PROJECT MANAGER		Job No. ---	Dwg. No. 454-T-0152 REV

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Filename: SK-3320-M-201XY.DWG Arc: 1 Rev: A



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M.O.C. No. CP00165

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